

Tempalux® is a Registered Trademark of Westlake Plastics Co.

Tempalux is Westlake Plastics' family of Polyetherimide (PEI) materials. Tempalux is an amorphous material offering high dielectric strength, high strength and stiffness at elevated temperatures (up to 180°C for extended periods of time), high modulus, and broad chemical resistance. Tempalux has excellent dimensional stability (low creep and low CLTE) with good resistance to a broad range of chemicals such as automotive fluids, fully halogenated hydrocarbons, alcohols and aqueous solutions. Tempalux has inherent flame retardancy with low smoke generation, meeting ABD, FAR and NBS.

Tempalux is FDA and EU compliant for food contacting applications.













The following physical property information is based on typical values of the colored resin.

Property	Units	Test Standard	Unfilled
Mechanical			
Tensile Strength			
@yield	psi	ASTM D638	16,000
@break	psi	ASTM D638	13,100
Tensile Modulus	psi	ASTM D638	520,000
Tensile Elongation @yield	%	ASTM D638	7.0
@break	%	ASTM DO38 ASTM D638	60.0
Flexural Strength @yield	psi	ASTM D790	24,000
Flexural Modulus	psi	ASTM D790	510,000
Izod Impact Strength	P		
Notched	ft•lbs/in	ASTM D256	25.0
Un-Notched	ft•lbs/in	ASTM D4812	1.0
Hardness	M Scale	ASTM D785	M109
Thermal			
Heat Deflection Temperature			
@66 psi	°F	ASTM D648	410
@264 psi	°F	ASTM D648	394
Coefficient of Thermal Expansion	in/in/°F	ASTM E831	3.1x10⁻⁵
			@0.118" 5VA
Flammability Rating	_	UL94	@0.0295" V-0
Limiting Oxygen Index	%	ASTM D2863	47.0
Electrical			
Dielectric Strength 0.063" in oil	V/mil	ASTM D149	710
Dielectric Constant @1kHz	_	ASTM D150	3.15
Dissipation Factor @1kHz	_	ASTM D150	0.0012
Volume Resistivity	ohm•cm	ASTM D257	1.0x10 ¹⁷
Other			
Specific Gravity	_	ASTM D792	1.27
Water Absorption @24 hours	%	ASTM D570	0.25

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to intringe any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential closs) shall be available to the buyer.



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Applications Include:

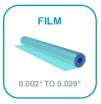
- Electrical Connectors / Fittings Burn in Test Sockets
- Radomes
- Aircraft Seating Components —
 Legs, Seat Pans, Trays and Video Arms
- Plenum devices
- Fuel cell components

Manufacturing Capabilities:









Colors:

Light Amber

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.





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